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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-08-16-51** **Date: 27-06-19** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02. |
| **Agency** | : | Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32. |
| **Customer's Reference** | : | EE(YNK D)E-PMT-09/W.O/21/2019-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 24-06-19 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 25-06-19 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 2.2 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 248.5 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.11 | – |
| 4 | Standard Consistency (%) | 27.5% | Not specified |
| 5 | Initial Setting time | 185 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 260 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 2mm | Not more than 10 mm |

AE-2
A.E.E

**Note:**

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

AE-02

**FOR CIVIL Pro.**

CIVIL PRO BANGALORE Sig..... Date.....

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

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****End of Report****



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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

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## TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-08-16-51 Date: 27-06-19

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 12.5 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 11.4 | |
| 3 | Specific Gravity | 2.65 | _ |
| 4 | Bulk Density(Loose) (Kg/l) | 1.57 | _ |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.52 | _ |
| 6 | Water Absorption(%) | 0.27 | _ |

**Note:**
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CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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# TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-08-16-51

PHYSICAL PROPERTIES Date: 26-06-19

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.58 | – |
| 2 | Specific Gravity | 2.57 | – |
| 3 | Material finer than 75 micron(%) | 6.8 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

**Note:**

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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